Problem statement:

Company Lockers Pvt. Ltd. hired you as a Full Stack Developer. They aim to digitize their products and chose LockedMe.com as their first project to start with. You're asked to develop a prototype of the application. The prototype of the application will be then presented to the relevant stakeholders for the budget approval. Your manager has set up a meeting where you're asked to present the following in the next 15 working days (3 weeks):

- Specification document - Product's capabilities, appearance, and user interactions
- Number and duration of sprints required
- Setting up Git and GitHub account to store and track your enhancements of the prototype
- Java concepts being used in the project
- Data Structures where sorting and searching techniques are used.
- Generic features and three operations:
    1. Retrieving the file names in an ascending order
    2. Business-level operations:
        - ✓ Option to add a user specified file to the application
        - ✓ Option to delete a user specified file from the application
        - ✓ Option to search a user specified file from the application
        - ✓ Navigation option to close the current execution context and return to the main context
    3. Option to close the application

The goal of the company is to deliver a high-end quality product as early as possible.

Solution :-

Step 1:- Start.
Step 2:- First we create a path in the system where we have to store the files.
Step 3:- Take one String Variable and store the path that is created.
Step 4:- Take a while loop with true expression for looping.
Step 5:- Take a variable with user input.
Step 7:- Take a switch case for menu creation .that perform according to the given input by the user.

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1. Display Files in Ascending Order
2. Add,Delete,Search,Main Menu
3. Exit"
```

Step 7.1 :- create the object of the file class and pass the “path”as a argument in the File Constructor .
Step 7.2 :- take a file type array and store the filenames using fileobject.listFiles() method.it store the file names in ascending order.
Step 7.3 :- print the array usnig for each loop.

Step 8 :- Take a boolean variable(loop) and initiating true in it.
Step 9:- Take another while loop and give loop as a expression for looping until the varible is not initialized with false.
Step 10 :- Take another switch case for menu creation.

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1. Add file
2. Search file
3. Delete file
4. Main Menu
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Step 10.1.1 :- Take a variable for user input according to the above choice.
Step 10.1.2 :- Take the String type variable and store the file name acoording to the user input.
Step 101..3 :- Take another String for final path that is (path+filename).
Step 10.1.4 :- Create file class object and give the final path as an argument to the file class constructor.
Step 10.1.5 :- take one boolean variable and check that file is created or not using fileclassobject.createNewFile() method and store the result in the boolean type variable.
Step 10.1.6 :- Check the result if it is true then file is created else file is not created.

Step 10.2.1 :- Take string type variable and take input from user .
Step 10.2.2 :- Create file class object and pass the path where file is stored .
Step 10.2.3 :- Take file type array and store the filenames in it using object.listFiles() method;
Step 10.2.4 :- check file is present or not using string comparision(equals())
Step 10.2.5 :- If it returns true then file is present else file is not present.

Step 10.3.1 :- Take the String type variable and store the file name acoording to the user input.
Step 10.3.2 :- Take another String for final path that is (path+filename).
Step 10.3.3 :- Create file class object and give the final path as an argument to the file class constructor.
Step 10.3.4 :- Use the delete method with the file object.
Step 10.3.5 :- Print file is deleted.

Step 10.4.1 :- Set boolean variable=false, to break the loop.and return to the main menu.

Step 11 :- Use System.exit(0); for exit from the whole program.

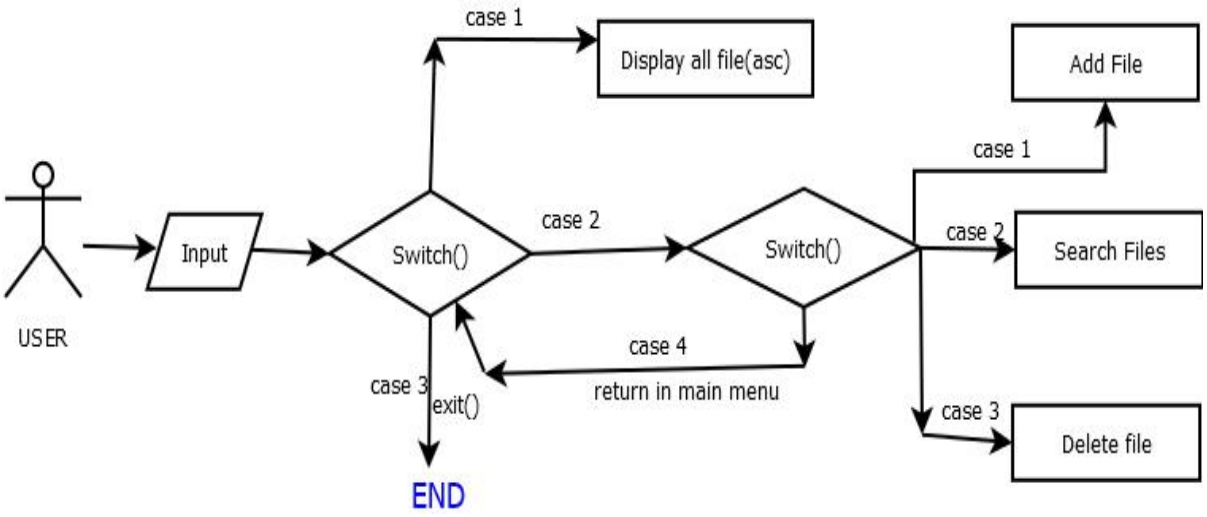
Step 11 :- Stop and End.

❖ Document specification :-

✧ Product capabilities.

- ✓ Display the files in Ascending order.
- ✓ Add new file.
- ✓ Delete a file.
- ✓ Search a file.
- ✓ Close the application and return to main context.

✧ User Intraction :



❖ Number of Sprints and Task :-

✧ Sprint - 01 (one week)

- ✓Day 1 - Create Algorithm and Flow Chart.
- ✓Day 2 - Create a method to add a new file in the application.
- ✓Day 3 - Create a method to delete a file .
- ✓Day 4 - Test the add new file method and delete a file method by taking some input from the user.
- ✓Day 5 - Create a method to Search a file and test that.

✧ Sprint - 02 (one week)

- ✓Day 1 - Create a method to display the files in ascending order.
- ✓Day 2 - Test the search file method.
- ✓Day 3 - Test the method display all files in ascending order.
- ✓Day 4 - Create the menu using Switch case and arrange all the method accordingly and bind them as a single Application
- ✓Day 5 - Test the Application by doing all operations which is present in the Application.